

Nuclear magnetic resonance line shape in type II superconductors with allowance for the skin effect

Kochelaev B., Proshin Y., Tsarevskii S.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The NMR line shape in type II superconductors is plotted with allowance for the change in the nonuniformity of the magnetic field of the vortex lattice near the surface of the superconductor. It is shown that the inclusion of these changes significantly alters the parameters of the NMR line, a fact that can substantially modify the conclusions usually drawn from an analysis of the NMR line profile as to the type of vortex lattice and the parameters of the superconductor. © 1996 American Institute of Physics.
